10/786,240 2/3/2006

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	68	548/404.ccls.	US-PGPUB; USPAT	OR	ON	2006/02/03 14:12
L2	456	548/413.ccls.	US-PGPUB; USPAT	OR	ON	2006/02/03 14:13
L3	329	514/425.ccls.	US-PGPUB; USPAT	OR	ON	2006/02/03 14:13
L4	0	I1 AND I2	US-PGPUB; USPAT	OR	ON	2006/02/03 14:13
L5	0	I1 AND I3	US-PGPUB; USPAT	OR	ON	2006/02/03 14:13
L6	9	I2 AND I3	US-PGPUB; USPAT	OR	ON	2006/02/03 14:14
L7	0	"658".ccls.	US-PGPUB; USPAT	OR	ON	2006/02/03 14:14
L8	104	568/10.ccls.	US-PGPUB; USPAT	OR	ON	2006/02/03 14:15
L9	5	514/767.ccls.	US-PGPUB; USPAT	OR	ON	2006/02/03 14:15
L10	0	L8 AND L9	US-PGPUB; USPAT	OR	ON	2006/02/03 14:16
L11	3	L8 AND L2	US-PGPUB; USPAT	OR	ON	2006/02/03 14:16

10/786,240

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: SSPTAYLC1626

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

```
NEWS
                 Web Page URLs for STN Seminar Schedule - N. America
     1
NEWS
     2
                 "Ask CAS" for self-help around the clock
NEWS
      3 DEC 05
                CASREACT(R) - Over 10 million reactions available
NEWS
      4
        DEC 14
                 2006 MeSH terms loaded in MEDLINE/LMEDLINE
NEWS
     5
        DEC 14
                 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER
NEWS
      6 DEC 14
                 CA/CAplus to be enhanced with updated IPC codes
                 IPC search and display fields enhanced in CA/CAplus with the
NEWS
        DEC 21
    7
                 IPC reform
NEWS
         DEC 23
                 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/
    8
                 USPAT2
NEWS 9
                 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
         JAN 13
NEWS 10
         JAN 13
                 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to
                 INPADOC
NEWS 11
         JAN 17
                 Pre-1988 INPI data added to MARPAT
        JAN 17
NEWS 12
                 IPC 8 in the WPI family of databases including WPIFV
        JAN 30
NEWS 13
                 Saved answer limit increased
NEWS 14
        JAN 31
                Monthly current-awareness alert (SDI) frequency
                 added to TULSA
```

NEWS EXPRESS JANUARY 03 CURRENT VERSION FOR WINDOWS IS V8.01,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT
http://download.cas.org/express/v8.0-Discover/

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NEWS LOGIN Welcome Banner and News Items
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NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 07:08:30 ON 03 FEB 2006

=> file reg COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FILE 'REGISTRY' ENTERED AT 07:08:40 ON 03 FEB 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2006 American Chemical Society (ACS)

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STRUCTURE FILE UPDATES: 1 FEB 2006 HIGHEST RN 873294-13-4 DICTIONARY FILE UPDATES: 1 FEB 2006 HIGHEST RN 873294-13-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10786240\10786240.str
CH2.4-5
G1
NH2
Ship of the content of the co

chain nodes:
1 2 3 4 5 8 10
chain bonds:
1-2 1-10 2-3 3-4 3-5 4-8
exact/norm bonds:
3-5 4-8
exact bonds:
1-2 1-10 2-3 3-4

G1:OH,SH

Match level:
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 8:CLASS 10:CLASS

=> d L1 HAS NO ANSWERS L1 STR

G1 OH,SH

Structure attributes must be viewed using STN Express query preparation.

=> s 11
SAMPLE SEARCH INITIATED 07:09:00 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2407 TO ITERATE

83.1% PROCESSED 2000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 45198 TO 51082
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s ll 1-100

COMBINATION OF STRUCTURE AND TEXT TERMS NOT VALID
The query entered contains both search terms created by
structure-building or screen commands and text search terms. L#s
created via the STRUCTURE or SCREEN commands must be searched in the
structures files separately from text terms or profiles. The L#
answer sets from structure searches can be used in crossover searches
and can be combined with text terms.

=> Uploading C:\Program Files\Stnexp\Queries\10786240\10786240a.str

CH2'4-5

G1

11

1

NH2

NH2

12

chain nodes:
1 2 3 4 5 8 10 11 12
chain bonds:
1-2 1-10 1-12 2-3 3-4 3-5 4-8 10-11
exact/norm bonds:
1-12 3-5 4-8
exact bonds:
1-2 1-10 2-3 3-4 10-11

G1:OH,SH

Match level:
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 8:CLASS 10:CLASS 11:CLASS 12:CLASS

STRUCTURE UPLOADED L3

=> d

L3 HAS NO ANSWERS

L3

STR

G1 OH,SH

Structure attributes must be viewed using STN Express query preparation.

=> s 13

SAMPLE SEARCH INITIATED 07:12:20 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED -1339 TO ITERATE

100.0% PROCESSED

1339 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:

ONLINE \*\*COMPLETE\*\*

\*\*COMPLETE\*\* BATCH

PROJECTED ITERATIONS:

28975 24585 TO

PROJECTED ANSWERS:

0 TO

L4

0 SEA SSS SAM L3

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

FULL ESTIMATED COST

**ENTRY** 

SESSION

3.08 3.29

STN INTERNATIONAL LOGOFF AT 07:12:50 ON 03 FEB 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: SSPTAYLC1626

PASSWORD:

\* \* \* \* \* \* \* \* Welcome to STN International Web Page URLs for STN Seminar Schedule - N. America NEWS 1 "Ask CAS" for self-help around the clock NEWS 2 CASREACT(R) - Over 10 million reactions available NEWS 3 DEC 05 NEWS 4 2006 MeSH terms loaded in MEDLINE/LMEDLINE DEC 14 DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER NEWS 5 DEC 14 CA/CAplus to be enhanced with updated IPC codes NEWS 6 NEWS 7 DEC 21 IPC search and display fields enhanced in CA/CAplus with the IPC reform New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/ DEC 23 NEWS 8 USPAT2 NEWS 9 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB JAN 13 JAN 13 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to NEWS 10 INPADOC JAN 17 Pre-1988 INPI data added to MARPAT NEWS 11 IPC 8 in the WPI family of databases including WPIFV NEWS 12 JAN 17 JAN 30 Saved answer limit increased NEWS 13 Monthly current-awareness alert (SDI) frequency JAN 31 NEWS 14 added to TULSA JANUARY 03 CURRENT VERSION FOR WINDOWS IS V8.01, NEWS EXPRESS CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT http://download.cas.org/express/v8.0-Discover/ STN Operating Hours Plus Help Desk Availability NEWS HOURS General Internet Information NEWS INTER Welcome Banner and News Items NEWS LOGIN Direct Dial and Telecommunication Network Access to STN NEWS PHONE CAS World Wide Web Site (general information) NEWS WWW Enter NEWS followed by the item number or name to see news on that specific topic. All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties. FILE 'HOME' ENTERED AT 07:20:38 ON 03 FEB 2006 => file reg SINCE FILE TOTAL COST IN U.S. DOLLARS ENTRY SESSION 0.21 0.21 FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 07:20:44 ON 03 FEB 2006
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STRUCTURE FILE UPDATES: 1 FEB 2006 HIGHEST RN 873294-13-4 DICTIONARY FILE UPDATES: 1 FEB 2006 HIGHEST RN 873294-13-4

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

chain nodes :
1 2 3 4 5 8 9 10
chain bonds :
1-2 1-8 1-10 2-3 3-4 3-5 8-9
exact/norm bonds :
1-10 3-4 3-5
exact bonds :
1-2 1-8 2-3 8-9

G1: Hy, PO3H2

Match level:
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 8:CLASS 9:CLASS 10:CLASS

L1 STRUCTURE UPLOADED

=> d L1 HAS NO ANSWERS L1 STR

G1 Hy, PO3H2

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 07:21:05 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 3023 TO ITERATE

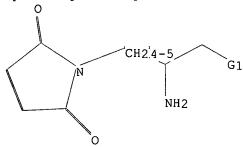
66.2% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

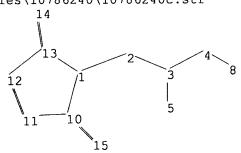
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*
BATCH \*\*COMPLETE\*\*
PROJECTED ITERATIONS: 57163 TO 63757
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=>
Uploading C:\Program Files\Stnexp\Queries\10786240\10786240c.str





0 ANSWERS

chain nodes :
2 3 4 5 8 14 15
ring nodes :
1 10 11 12 13
chain bonds :
1-2 2-3 3-4 3-5 4-8 10-15 13-14
ring bonds :
1-10 1-13 10-11 11-12 12-13
exact/norm bonds :
1-10 1-13 3-5 4-8 10-11 10-15 11-12 12-13 13-14
exact bonds :
1-2 2-3 3-4

G1:OH,SH

Match level:
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 8:CLASS 10:Atom 11:Atom 12:Atom
13:Atom 14:CLASS 15:CLASS

=> d L3 HAS NO ANSWERS L3 STR

G1 OH, SH

Structure attributes must be viewed using STN Express query preparation.

=> s 13 SAMPLE SEARCH INITIATED 07:27:53 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 145 TO ITERATE

100.0% PROCESSED 145 ITERATIONS 1 ANSWERS SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*
BATCH \*\*COMPLETE\*\*
PROJECTED ITERATIONS: 2178 TO 3622
PROJECTED ANSWERS: 1 TO 80

L4 1 SEA SSS SAM L3

=> s 13 full FULL SEARCH INITIATED 07:28:17 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 3298 TO ITERATE

100.0% PROCESSED 3298 ITERATIONS 25 ANSWERS SEARCH TIME: 00.00.01

L5 25 SEA SSS FUL L3

=> file caplus
COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 172.22 172.43

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FILE COVERS 1907 - 3 Feb 2006 VOL 144 ISS 6 FILE LAST UPDATED: 1 Feb 2006 (20060201/ED)

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http://www.cas.org/infopolicy.html

=> s 15

L6 36 L5

=> d ibib abs hitstr 20-36

```
L6 ANSWER 20 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1977:171849 CAPLUS
DOCUMENT NUMBER: 86:171849 CAPLUS
ITILE: PEPTIDE WITH ANTIDIOTIC ACTION
INVENTOR(S): Sarbach, Raymond F. J.; Pacheco, Henri: Morrier,
Eliasbeth: Yavordios, Dimitri
Institut de Recherche Scientifique (IRS), Fr.
SOURCE: FREMBL
DOCUMENT TYPE: Patent
LANGUAGE: PAMILY ACC. NUM. COUNT: 1
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                PATENT NO.
                                                                                                       DATE
                                                                                                                                                     APPLICATION NO.
FR 2294715
FR 2294715
PRIORITY APPLN. INFO.:
```

Me(CH2)13CMe2CO-Lys-Lys-OMe (I) was prepared by coupling
No-formyl-Ne-phthaloyllysine (II) with Nephthaloyllysine Et ester, cleaving the formyl from the resulting
dipeptide, treating with Me(CH2)13CMeCO2H and cleaving the phthaloyl
protective group. II was prepared by treating lysine-HCl with
ethoxycarbonylphthalmide and formylating the resulting
Ne-phthaloyllysine with HCO2H-Ac2O. Me(CH2)13CMe2CO2H was
obtained by chlorinating Me2CHCO2H, Friedel-Crafts reaction of Me2CHCOCI
with C6H6, reaction of Me2CHBz with Me(CH2)13Br, aminolysis of
Me(CH2)13CMe2CO3H2. I was a
bactericide with min inhibitory concns. of 6.25 µg/ml against
Staphylococcus aureus S108, Diplococcus pneumonia, and Neisseria perflava
and 62.5 µg/ml Candida abbicans.
S0305-52-79
RL: RCT (Reactant); SPN (Syntheric preserved.)

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and formylation of) 50305-52-7 CAPLUS

Absolute stereochemistry.

2H-Isoindole-2-hexanoic acid, α-amino-1,3-dihydro-1,3-dioxo-, (αS)- (9CI) (CA INDEX NAME)

62646-50-8P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, with dimethylpalmitic acid) 62646-50-8 CAPLUS

NN L-Norleucine, 6-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-y1)-N-(6-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-y1)-L-norleucy1)-, methyl ester (9CI) (CA INDEX

L6 ANSWER 21 OF 36
ACCESSION NUMBER:
DOCUMENT NUMBER:
1977:43143 CAPLUS
86:43143
Signal Answer
AUTHOR(S):
COMPORATE SOURCE:
COMPORATE SOUR

SOURCE:

Agricultural and Biological Chemistry (1976), 40(8), 1649-50 1649-50 CODEN: ABCHA6; ISSN: 0002-1369 Journal English

DOCUMENT TYPE:

CASREACT 86:43143 OTHER SOURCE(S):

H (CH2) nCHRCO2H

H2N(CH2)nCH(OH)CO2H (n = 2-4) were prepared by converting H2N(CH2)nCH(NH2)CO2H to their Cu complexes, treating these with N-ethoxycarbonylphthalimide, treating I (R = NH2) with NaNO2-aqueous and

hydrazinolysis of I (R = OH). 53706-02-8P

53706-02-8P
RE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, with sodium nitrite-aqueous acetic acid) 53706-02-8 CAPIUS 2H-Isoindole-2-hexanoic acid, α-amino-1,3-dihydro-1,3-dioxo-, monohydrochloride, (αS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 20 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

L6 ANSWER 22 OF 36 CAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 1976:31459 CAPLUS DOCUMENT NUMBER: 84:31459 84:31459 Selective removal of the tert-butyloxycarbonyl protecting group in the presence of tert-butyl and p-methoxybenzyl esters Goodacre, Jennifer; Ponsford, Roger J.: Stirling, TITLE: AUTHOR (S): Trene Beecham Res. Lab., Betchworth, UK Tetrahedron Letters (1975), (42), 3609-12 CODEN: TELEAY; ISSN: 0040-4039 CORPORATE SOURCE: MENT TYPE: Journal Journal ACCE: English t SOUNCE(S): CASREACT 84:31459
Me3C and p-MeOC6H4CH2 esters of Me3Co2C-protected amino acids and DOCUMENT TYPE: OTHER SOURCE(S): underwent selective removal of the Me3CO2C group on treatment in Et2O with p-MeC6H4SO3H (I) in EtOH for 3-24 hr at room temperature were obtained in 81-95% yield. E.g., treatment of MeCH(NHCO2CMe3)CO2CMe3 with I for 3 hr at room temperature gave 91% MeCH(NHSO2C6H4Me-p)CO2CMe3. 58177-89-2P P-toluenesul fonates RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of) 58177-89-2 CAPLUS NN D-Alanine,
N-[N-(6-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-y1)-L-norleucyl]-Dalanyl]-, 1,1-dimethylethyl ester, mono(4-methylbenzenesulfonate) (9CI)
(CA INDEX NAME) CM 1

Absolute stereochemistry.

CRN 58177-88-1 CMF C24 H34 N4 O6

CM 2

(Continued)

L6 ANSWER 23 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1976:31458 CAPLUS
DOCUMENT NUMBER: 84:31458
TITLE: Synthesis and antibiotic activity of

oligopeptides Morier, Elisabeth; Pacheco, Henri; Koeberle, Jean; Yavordios, Dimitri Serv. Chim. Biol., Inst. Natl. Sci. Appl., Villeurbanne, Fr. European Journal of Medicinal Chemistry (1975), AUTHOR (S):

CORPORATE SOURCE:

European Journal of Medicinal Chemistry (1975),

221-30
CODEN: EJMCA5: ISSN: 0223-5234

DOCUMENT TYPE: Journal
LANGUAGE: French
AB Eight dipeptides of lysine acylated with long chain fatty acids were
prepared by the Merrifield method. R-Lys-Lys-OMe (R = 2,2dimethylpalmitoyl) was bactericidal and biodegradable.

IT 57746-01-3P
RL: SPN (Synthetic preparation): PREP (Preparation)
(preparation of)
N 57746-01-3 CAPUJS
CN L-Norleucine,
6-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)-N-[6-(1,3-dihydro1,3-dioxo-2H-isoindol-2-yl)-L-norleucyl)-, ethyl ester (9CI) (CA INDEX
NAME)

Absolute stereochemistry.

L6 ANSWER 24 OF 36 CAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 1975:428548 CAPLUS DOCUMENT NUMBER: 83:28548

TITLE: Preparation and some properties of maleimido acids

AUTHOR (S):

maleoyl derivatives of peptides Keller, Oskar: Rudinger, Josef Inst. Molekularbiol. Biophys., ETH, Zurich, Switz. Helvetica Chimica Acta (1975), 58(2), 531-41 CODEN: HCACAV: 158N: 0018-0158 CORPORATE SOURCE:

SOURCE:

CODEN: HCACACY; ISSN: 0018-019X

DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB N-alkoxycarbonylmaleimides (1, R = Me, Et, Bu, PhCH2, p-N02C6H4CH2; II, n = 1, 2, 5; III, n = 3) were prepared in aqueous solution The maleoyl group can be
cleaved by mild alkaline and acid hydrolysis or by hydrazinolysis. IV

used in peptide synthesis. Thus, maleimide, and N-methylmorpholine in EtOAc, at 0-3° were treated with ClCO2Me to give I (R = Me) (V). Treatment of V with 1M NaOM to pH 11, acidification with 1M H2SO4 to pH 1-2 and cyclization with NaHCO3 gave III (n = 1, 2, 5). \$5750-65-7P ΙT

55750-65-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
55750-65-7 CAPLUS
HR-Pyrrole-1-hexanoic acid, α-amino-2,5-dihydro-2,5-dioxo-,monohydrobromide, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 25 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1974:552618 CAPLUS
DOCUMENT NUMBER: 81:152618
Synthesis of analogs of valinomycin and Enniatin B
containing charged spin-labeled, or fluorescent

groups AUTHOR(S): Ivanov, V. T.; Sumskaya, L. V.; Mikhaleva, I. I.; Laine, M. A.; Ryabova, I. D.; Ovchinnikov, Yu. A. Inst. Khim. Prir. Soedin. im. Shemyakina, Moscow,

CORPORATE SOURCE:

Khimiya Prirodnykh Soedinenii (1974), (3), 346-58 CODEN: KPSUAR: ISSN: 0023-1150 SOURCE:

Journal DOCUMENT TYPE:

LANGUAGE: Russian

AB Cyclo|-D-Val-L-OCHMeCO-Lys (N6-R)-D-OCH (CHMe2) CO-[-D-Val-L-OCHMeCO-Val-D-OCH (CHMe2)-CO-]-2-].

cyclo|-L-NneCH (CHMe2)-CO-D-OCH (CHMe2) CO-]-LNNeCH (CHMe2) CO-D-OCH (CHMe2) cO-]2-] [R = H, [4-(dimethylamino)-1naphthalenyl|sulfonyl, (2, 2, 6, 6-tettramethyl-1-oxy-4-piperidinyl)acetyl],
 cyclo|-D-Val-L-OCHMe-CO-Glu-D-OCH (CHMe2) CO-]-D-Val-L-OCHMeCO-Val-D-OCH(CHMe2) CO-]2], and cyclo|-L-NNeCH (CHMe2) CO-]-D-Val-D-OCH-(CHMe2) CO-[-L-NMeCH (CHMe2) CO-D-OCH (CHMe2)-CO-]2] were prepared by standard

pebtide

ide
coupling reactions. The antimicrobial activities of these compds. and
intermediates in their preparation were determined
50305-52-7
RL: RCT (Reactant): RACT (Reactant or reagent)
(reaction of, with benzyloxycarbonyl chloride)
50305-52-7 CAPLUS
2H-Isoindole-2-hexapoic acid accident of the preparation of the prepa

peptide

2H-Isoindole-2-hexanoic acid, α-amino-1,3-dihydro-1,3-dioxo-, (αS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

```
L6 ANSWER 26 OF 36 CAPILIS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 1974:520451 CAPILIS
DOCUMENT NUMBER: 81:120451
                                                           e::120451
S-a-Hydroxy-e-N-phthaloylamino acids
Akita, Eichi: Horiuchi, Yukio: Ito, Teiichiro
Meiji Confectionary Co., Ltd.
Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
Patent
 TITLE:
 INVENTOR (S)
 PATENT ASSIGNEE(S):
 DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. HUM. COUNT:
PATENT INFORMATION:
                                                             Japanese
            PATENT NO.
                                                            KIND
                                                                         DATE
                                                                                                          APPLICATION NO.
JP 49020166
PRIORITY APPLN. INFO.:
                                                               A2
                                                                             19740222
           For diagram(s), see printed CA Issue.

(S)-o-Hydroxy-e-phthalimido acids I (n = 2-4) were prepared by treating HCl salts of \alpha-amino acids (II) in aqueous AcOH with NaNO2. II-HCl were prepared by treating 1-\alpha, \alpha-diamino acid Cu salts with N-ethoxycarbonylphthalimide (III) and subsequent decopperization
 with
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dilute HCl-MeoH. Thus, 5 g L(+)-2,4-diaminobutyric acid-2HCl in N NaOH wastreated with 3.14 g basic Cu carbonate, clarified, and stirred with 9.34 g III at pH 9. The solid was decopperized with 1:1 4N HCl-MeoH and Et20 to give 67.51 II.HCl (n = 2), which (4.885 g) was dissolved in 120

33% aqueous AcOH, treated with 5.03 g NaNO2 with cooling, and kept 3 The mixture was evaporated and concentrated HCl added to give 61.5% I (n

= 2). prepared were I (n = 3 and 4). 53706-02-8

RL: RCT (Reactant); RACT (Reactant or reagent)

(nitrosation of) 53706-02-8 CAPLUS

2H-Isoindole-2-hexanoic acid, α-amino-1,3-dihydro-1,3-dioxo-, monohydrochloride, (αS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 28 OF 36 CAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 1966:75635 CAPLUS DOCUMENT NUMBER: 64:75635 ORIGINAL REFERENCE NO.: 64:14139c-e Conversion of by-products of caprolactam polymerization to lysine and pipecolinic acid Losse, Guenter: Schobess, Manfred INVENTOR (S): 3 pp. Patent DOCUMENT TYPE: Unavailable FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DAIL
DD 30710 PRIORITY APPLN. INFO.:		19651025	DD DD	19610710 19610710

AB Cyclic oligomers of caprolactam were hydrolyzed by heating with concentrated aqueous
HCl to give s-aminohexanoic acid-HCl (I.HCl) which was used to prepare lysine di-HCl (II) and picolinic acid-HCl (III). A mixture of oligomers and concentrated aqueous HCl was kept at 180° for 1-1.5 hrs. to give I.HCl, m. 127°. I was acylated, the acylation product halogenated, the halogen compound aminated, and the amino compound to dive II m. 187.0°

viated to give II, m.  $187-9^{\circ}$ , and III, m.  $258-62^{\circ}$ . The following intermediates, analogs of I, were prepared (substituents,  ${\bf t}$  yield, and

intermediates, analogs of I, were prepared (substituents, % yield, given): e-benzoylamino, 95, 77° (petroleum ether): e-p-nitrobenzoylamino, 90, 148° (H2O): e-phthaloylamino, 91, 108° (12 alc.-H2O): α-bromo-c-benzoylamino, 90, 160-3° (alc.-H2O): α-chloro-e-benzoylamino, 90, 142-0°: α-bromo-c-phthaloylamino, 70-80, 151-3°: α-chloro-e-p-nitrobenzoylamino, 90, 220-5° (no m.p. given for the corresponding α-bromo compound): e-Benzoyllysine (77% yield) m. 265-70°: e-phthaloyllysine (77% yield) m. 223-30°: α-phthaloyllysine (70% yield) m. 227-31°. 4403-38-7, 2-Isoindolinehexanoic acid, α-amino-1,3-dioxo-(preparation of) 4403-38-7 CAPLUS (H-Isoindole-2-bexanoic acid, α-amino-1,3-dioxo-(9CI) (CA INDEX NAME) 11

L6 ANSWER 27 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1974:3788 CAPLUS

DOCUMENT NUMBER: 80:3788

Histidine and lysine in the Merrifield synthesis

AUTHOR(S): Schaich, Eugen: Fretzdorff, Anna M.: Schneider, Friedhelm

CORPORATE SOURCE: Physiol.-Chem. Inst. II, Univ. Marburg, Marburg/L., Fed. Rep. Ger.

SOURCE: Hoppe-Seyler's Zeitschrift fuer Physiologische Chemie (1973), 354(8), 897-902

COEN: HSZPAZ: ISSN: 0018-4888

DOCUMENT TYPE: Journal German

AB The coupling yields of 19 protected histidine derivs. with the model peptide Gly-Gly-Ala-resin were tested. With Adoc-His-(Adoc) (Adoc = adamantyloxycarbonyl), Boc-His (Boc)-ONP (Boc = MSCO2C, ONP)

OCCH4NO2-p),
and Boc-His(Z)-ONp (Z = PhcH2O2C), yields of 100% were obtained. The

protecting groups for the e-amino function of lysine in solid-phase coupling. were p-O2NC6H4CH2O2C and (MeZCH)2CHO2C. 50305-52-7
RL: PRP (Properties)
(solid-phase coupling of, cleavage in) 50305-52-7 CAPLUS
2H-Isoindole-2-hexanoic acid, q-amino-1,3-dihydro-1,3-dioxo-, (qS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry

L6 ANSWER 29 OF 36 CAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 1964:440687 CAPLUS 61:40687 61:7097e-h,7098a-f ORIGINAL REFERENCE NO. : TITLE: PATENT ASSIGNEE(S): Peptides ClBA Ltd. 38 pp. DOCUMENT TYPE: Unavailable COUNT: FAMILY ACC. NUM. CO PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1343587		19631122	FR	
DE 1212980			DE	
GB 1014426			GB	
US 3247178		1966	US	
PRIORITY APPLN. INFO.:			СН	19610913

Peptides were prepared from amino acids by condensation, protecting the m:-NH2 groups with phthalyl and the  $\alpha$ -NH2 groups with tert-butyloxycarbonyl (BOC) radicals. The phthalyl radical was removed with hydrazide acetate at pH 6.5; the BOC radical with strong acids at pH <4. The CO2M group was protected as usual by the p-phenylazobenzyl (PAB) radical. Thus, 22 g. dicyclohexylcarbodiimide (I) was added to 20.9 g. BOC-L-proline and 22.7 g. phenylazobenzyl alc. in 200 cc. C5H3N at 0° and kept 12 hrs. A few cc. HOAC was added to the mixture at 0° and the mixture filtered. II was removed from the filtrate and the residue dissolved in AcOEt and treated with 0.5N HCl and NaHCO3 to give 40 g. red oil. The oil was dissolved in 100 cc. absolute AcOEt and

500 cc. 3N HCl and AcOEt added. The mixture was kept 0.5 hr. and evaporated

vacuo and the residue dissolved in 500 cc. CHCl3 and filtered through a silica gel column. The column was eluted with CHCl3 in order to sep. an impurity and with CHCl3 containing 10M MeOH in order to obtain 77% PTO-OPAB.RCl (III), m. 180° (absolute EtOH). III (1.39 g.) in 10 cc. H2O was covered with AcOEt and treated with K2CO3 at 0°. The AcOEt extract was washed to neutrality and the solvent removed in vacuo at 40°. The residue was mixed with 1.13 g. BOC-TyrOH in 20 cc. MeCN, 1 cc. HCONMe2, and 0.91 g. 1, kept at 0° during the night, filtered, and processed in a similar manner as above in order to give Tyr-PTO-OPAB.HCl (IV), m. 204° (decomposition) (mixture of MeOH and

in a yield of 82%. Isobutyl chlorocarbonate (5 cc.) was added to 9 g BOC-Val-OH in 90 cc. absolute tetrahydrofuran (V) and 5.7 cc. NEt3 at

to -15°. The mixture was kept for 15-20 min., 17.25 g. IV in 120 cc. absolute HCONNe2 and 4.7 cc. NSt3 in 45 cc. absolute V added dropwise.

absolute RCOMMEZ and 4.7 cc. Nets in 4-0. Massessian and the mixture stirred 1 hr., kept 12 hrs. at 0°, concentrated, and dissolved in ACOEt. The solution was extracted with 0.5M HCl at 0° and neutralized by NaHCO3 in order to give BOC-Val-Tyr- Pro-OPAB (VI), m. 106-8°, in a yield of 88%. VI (17 g.) was dissolved in 50 cc. CC1302H, kept 5 min., and evaporated in vacuo. The oily residue was dissolved in CHCl3, washed with water, and neutralized with saturated NaHCO3. The CHCl3 layer was dried with

Na2504 and evaporated to yield 100% Val-Tyr-Pro-OPAB (VII). In a similar manner as VI and VII were prepared BOC-Lys(phthalyl)-Val-Tyr-Pro-OPAB in

ANSWER 29 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) yield of 871 and Lys(phthalyl)Val-Tyr-Pro-OPAB (VIII) in a yield of 1001 from 7.4 g. BOC-Lys(phthalyl)Val-Tyr-Pro-OPAB (VIII) in a yield of 1001 from 7.4 g. BOC-Lys(phthalyl)-Val-Tyr-Pro-OPAB (IX) in yields of 88 and 1001 from 3.5 g. BOC-Val-Dys(phthalyl)-Val-Tyr-Pro-OPAB and Pro-Val-Lys(phthalyl)-Val-Tyr-Pro-OPAB and Pro-Val-Lys(phthalyl)-Val-Tyr-Pro-OPAB (X) in yields of 91 and 1001 from 3.3 g. BOC-Pro-OH and 8.2 g. IX.

"Arg(MO2)-Pro-Val-Lys(phthalyl)-Val-Tyr-Pro-OPAB (X) in yields of 63 and 761 from 893 mg. BOC-Arg(MO3)-OH and 2.05 g. X; BOC-Arg(MO2)-Arg(MO2)-Pro-Val-Lys(phthalyl)-Val-Tyr-Pro-OPAB and Arg(MO2)-Arg(MO2)-Arg(MO2)-Pro-Val-Lys(phthalyl)-Val-Tyr-Pro-OPAB and Arg(MO2)-Arg(MO2)-Pro-Val-Lys(phthalyl)-Val-Tyr-Pro-OPAB and Arg(MO2)-Arg(MO2)-Pro-Val-Lys(phthalyl)-Val-Tyr-Pro-OPAB and Lys(phthalyl)-Arg(MO2)-Arg(MO2)-Pro-Val-Lys(phthalyl)-Val-Tyr-Pro-OPAB and Lys(phthalyl)-Val-Tyr-Pro-OPAB and Lys(phthalyl)-Val-Tyr-Pro-OPAB (X) in yields of 97 and 1001 from 1.29 g. BOC-Lys(phthalyl)-Val-Tyr-Pro-OPAB and Lys(phthalyl)-Val-Tyr-Pro-OPAB (X) in yields of 92 and 1001 from 1.29 g. BOC-Lys(phthalyl)-Val-Tyr-Pro-OPAB (X) in yields of 92 and 1001 from 1.29 g. BOC-Lys(phthalyl)-Val-Tyr-Pro-OPAB (X) in yields of 92 and 1001 from 1.29 g. BOC-Lys(phthalyl)-Val-Tyr-Pro-OPAB (X) in yields of 92 and 1001 from 1.29 g. BOC-Lys(phthalyl)-Val-Tyr-Pro-OPAB (X) in yields of 92 and 1001 from 1.29 g. BOC-Lys(phthalyl)-Val-Tyr-Pro-OPAB (X) in yields of 92 and 1001 from 1.20 g. BOC-Lys(phthalyl)-Val-Tyr-Pro-OPAB (X) in yields of 92 and 1001 from 1.20 g. BOC-Lys(phthalyl)-OH (XIII) in yields of 92 g. XIII and 43.2 pentachlorophenol in 160 cc. abs. Acobt to yield BOC-Lys(phthalyl)-OH (XIII) in yield of 98. In mixt. of 1.06 g. Arg-Arg-Pro-Val-Lys(phthalyl)-Val-Tyr-Pro-OPAB ABACH, 850 mg. XIII pentachlorophenol in 160 cc. abs. Acobt to yield boc-Lys(phthalyl)-Arg-Arg-Pro-Val-Ni2 of yields yield yield and the mixt. Again yield of 98. In another example 5.1 g. carboneroxyval

L6 ANSWER 30 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1964:17227 CAPLUS DOCUMENT NUMBER: 60:17227 ORIGINAL REFERENCE NO.: 60:3094e-h,3095a-q,3096a-q Peptides F. Hoffmann-La Roche & Co., A.-G. 46 pp. PATENT ASSIGNEE (S): DOCUMENT TYPE:

Unavailable PATENT INFORMATION:

APPLICATION NO. PATENT NO. KIND DATE DATE 19621203 BE 618417 DE 1184770 BE DE 1226745 FR 1327363 GB 1000896 GB 1000897 GB 1000899 1000900 US 3265682 1966 PRIORITY APPLN. INFO.: 19610601

Various peptides with antibacterial activity and a very low toxicity have been synthesized. The following abbreviations have been used in the description of their preparation: Cbo = carbobenzoxy; palm = palmitoyl;

MeZNHCO: dab = a, y-diaminobutyl. Thus, 100 g.

MeznHCO: dab = a, y-diaminobutyl. Thus, 100 g.

Ma-palm(Na-Cbo)-L-Lys-OH and 57 g. H(Na-Cbo)-L-LysOMe was dissolved in 250 cc. DMF. The solution was cooled to -10° and
left 16 hrs. at 0° after addition of 408 g. dicyclohexylcarboddimide:
50 cc. DMF was added, the mixture was heated to 50°, cooled to
20° and filtered. The filtrate was poured into 4 1. 5% NaCl, left
1 hr., filtered, the precipitate washed and dried in vacuo at 70° and
crystallized in EtoAc and petr. ether to give Na-palm(Na-Cbo)-LLys-(Na-Cbo)-L-Lys-OMe (I), m. 123-5°, [a]200

8.4° (c 2, DMF). I (50 g.) was dissolved in 50 cc. warm glacial
HOAC and the solution was stirred 1.5 hrs. at 20° with 150 cc. 33% HBr
in HOAC. After elimination of the gas formed, the mixture was diluted

150 cc. H2O and extracted twice with Et2O. The aqueous layer was

alkalinized with NH3. extracted with EtOAc, the exts. were dried, evaporated, the residue

dissolved in 20 cc. HeOH, acidified to pH 7 with 4N HCl in MeOH,

evaporated

nand crystallized in Me2CO to give Nα-palm-L-Lys-L-Lys-OMe.2HCl, m. 210-12\* (decomposition), [α]2DD -17\* (c 2, H2O). I (26 g.) was dissolved in 1 l. MeOH and treated 16 hrs. at 20\* with 50 cc. 2N NaOH. The solution was filtered, evaporated to 100 cc. and poured

 1.
 0.01N HCl, filtered, the precipitate washed with H2O, dried, and crystallized in

tallized in EtOAc-petr. ether to give N $\alpha$ -palm-(Nc-Cbo)-L-Lys-(Nc-Cbo)-L-Lys-OH (II), m. 129-31. II (16 g.) in 300 cc. glacial HOAc and 30 cc. H2O was hydrogenated after addition of 1 g. Pd-C. The

mixture was filtered, evaporated, the residue dissolved twice in MeOH, evaporated,

in H2O, acidified to pH 7 with 1N HCl, and precipitated with Me2CO to

ANSWER 29 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) 106979-41-3, Proline, 1-[N-[N-(6-phthalimidonorleucyl)valyl]tyrosy 1]-, p-[phenylazo]benzyl ester (preparation of) 106979-41-3 CAPLUS Proline, 1-[N-[N-(6-phthalimidonorleucyl)valyl]tyrosyl]-, p-(phenylazo]benzyl ester (7CI) (CA INDEX NAME)

PAGE 1-A i-Pr O li

PAGE 2-A

ANSWER 30 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
Na-palm-L-Lys-L-Lys-OH.HCl, m. 180° (decompn.), [a]20D
-4° (c 2, H2O). I (20 g.) in 800 cc. MeOH was satd. at 25°
with gaseous NH3 and left 48 hrs. at 25° filtered, the ppt. washed
with H2O, dried, and crystd. in DMF and H2O to give Nn-palm(Nn-Cbo)-L-Lys-(Ne-Cbo)-L-Lys-H22 (III), m. 174-6°,
[a]20D -8.2° (c 2, DMF). III (17 g.) in 300 cc. HOAc and 30
cc. H2O was hydrogenated after addn. of 1.7 g. Pd-C. The mixt. was
filtered, the filtrate evapd. and dissolved twice in a small amount H2O,
acidified to pH 7 with 3N HCl, and the soln. pptd. with Me2CO to give
Nn-palm-L-Lys-L-Lys-NH2.2HCl, m. 232-3° (decompn.),
[a]20D -11' (c 2, H2O). I (26 g.) in 400 cc. MeOH was
treated with 26 cc. N2H4.H2O (1001), heated 15 min. on a steam bath,
dd

with 800 cc. H2O after 24 hrs., filtered, the ppt. washed with H2O,

dried, d, and crystd. in DMF-EtOH to give Na-palm-Na-Cbo-L-Lys-(Na-Cbo)-L-Lys-NHNH2 (IV), m. 190-1°, (a)20D -10.8° (c 1, DMF). IV (22 g.) in 100 cc. glacial HOAc was stirred 1.5 hrs. with 33 HBr in HOAc. Et2O was added, the ppt. filtered and washed with Et2O, and crystd. in EtOH-Et2O to give Na-palm-L-Lys-L-Lys-NHNH2.3HBr, (a)20D -14.8° (c 1, H2O).
Na-Cbo-L-nitroarg-OH (35.3 g.) was dissolved in 400 cc. tetrahydrofuran and stirred at -10° with 16.2 g. carbonyldiimidazole. After 40 min. a soln. of H-L-nitroarg-OEt in 150

DMF was added and stirred 4 hrs. at 0°. The soln. was evapd., 1N HCl added to the residue, the oil formed treated with H2O, and crystd. in ELOH-H2O to give Na-Cbo-L-nitroarg-L-nitroarg-DET (V), m. 123-5°, (a) [212b -7.8° (c 1.0, ELOH). V (14.6 g.) was treated 1 hr. with 50 cc. 25% HBr in HOAC. The salt was pptd. with ELZO and with abs. ELOH, treated in abs. ELOH with ELZO, washed with ELZO and with abs. ELOH, treated in abs. ELOH with ELZO, washed with ELZO and with abs. ELOH, treated in abs. ELOH with ELZO, washed with ELZO and with abs. ELOH, treated in abs. ELOH with ELZO, washed with ELZO and with abs. ELOH, treated in abs. ELOH with ELZO, washed with ELZO and with abs.

evepu., and the residue dissolved in 150 cc. abs. CSHSN. ELSN (4 Cc.)
7.2 g. palmitoyl chloride was added at -10 to -15\*, the mixt. left
30 min. at 0\*, the solvent evapd., the residue dissolved in EtoRc
and in 3N HCl, washed with a satd. NaCl soln., and dried and evapd. to
give after crystn. in EtOH-ELCO Nα-palm-L-nitroarg-L-nitroarg-OEt,
m. 169-73\*, which was dissolved in 50 parts glacial HOAc and
hydrogenated 24 hrs. at 25\* after addn. of 108 H2O and 5% Pd-C.
The mixt. was filtered, the filtrate evapd. and the residue crystd. in
MeOH-ELOH to give Nα-palm-L-arg-L-arg-OEt-ZHCl, m. 225-30\*,
[α]21D -13.7\* (c 2, ELOH). No-Pormyl-(Nα-Cbo)L-Lys-OH (26.3 g.) was dissolved in 150 cc. abs. tetrahydrofuran (THF)

13.8 g. carbonyldiimidazole was added at -10°. After 30 min. a soln. of H-(Ne-Cbo)-L-Lys-OMe in 50 cc. THF was added and the mixt. stirred 4 hrs. at 25°. evapd., the residue disabled in EtoAc and washed with 1M tertaric acid, ice-H2O, 10% KHCO3, and satd. NACI soln., the org. soln. dried, evapd. and the residue crystd. in Me2COEt2O to give No-formyl-(Ne-Cbo)-L-Lys-(Ne-Cbo)-Lys-(N

soln. was evapd., the residue dissolved in Et2O, the soln. evapd. twice

presence of 100 cc. PhMe, the residue dissolved in 300 cc. THF and 10 cc. Et3N at 0°. The mixt. was filtered, 10 cc. Et3N and 50 millimoles fatty acid chloride were added at -10°. The mixt. was stirred 20 min. at 0°, concd. and dissolved in Et0Ac and HCl, the soln. washed with HCl, H2O and a satd. NaCl soln., dried to give the corresponding

r filtration of the mixt., 35 g. Nα-(10-undecenoy1)-(Nα-phthaloy1)-L-Lys-OH was added to the filtrate, the soln. cooled to 0 to -5°, and 17.5 g. dicyclohexylcarbodiimide in 80 cc. DMF added to it. The mixt. was left 24 hrs. in the cold and filtered, ice H2O added

the filtrate, the pptd. dipeptide dissolved in EtOAc and the soln. washed

L6 ANSWER 30 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

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ANSWER 30 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) and crystd. by addn. of EtOH and H2O to give No-(10-undecenoyl)-(Ne-phthaloyl)-L-Lys-(Ne-phthaloyl)-L-Lys-OEt (XII), in 130-2', [a]21D -7.4' (c 2.54, MeOH). XI (7.3 g.) in 100 cc. EtOH and 3 cc. H2O was refluxed 1 hr. and 1 g. N2H4.H2O added. Concd. RCI (2 cc.) was added after a while, the mixt. stirred and filtered, and the soln. concd. to give after addn. of Ne2CO and petr. ether Ne-(10-undecenoyl)-L-Lys-L-Lys-Ot2.HCl, in 241-3', [o]22D -31' (c 1.6, H2O). Carbonyldimidszole (8.6 g.) was added at 2' to 35.4 g. No-Ny-D1-CbO-L-Lys-(Ne-CbO)-L-Lys-OH) in 150 cc. THF. After 30 min., 12.7 g. cetylamine was added and the mixt. left at 25' to ppt. The ppt. was sepd. and washed to give 25.0 g. No-Ny-di-CbO-L-Lys-(Ne-CbO)L-Lys-CHAIDMIDE (XII), in 147-25', [a]21D -6.3' (c). DWF). XII (28 g.) was treated 2 hrs. with 50 cc. 331 HBr in glacial DWF). XII (28 g.) was treated 2 hrs. with 50 cc. 331 HBr in glacial The soln. was pptd. with £t20, evapd. with 50 cc. MeOH, and the residue dissolved in H20 and poured on 80 g. Amberlite IRA-410. and eluted with H20. HCl [3M] (30 cc.) was added to the eluate, the soln. concd. at 50° to 40 cc., and pptd. with MeCO2 to give H-L-Lys-L-Lys-cetylamide. 3kcl, m. 230-50° (decompn.), (e122D 6.6° (c 2.0, MeOH). Et3N (4.4 cc.) was added to 10.5 g. Ns-phthaloyl-L-Lys-OEI in 70 cc. DWF, the mixt. filtered, the filtrate added to 12.6 g. Ns-Cbo-(Ns-phthaloyl)-L-Lys-OEI in 150 cc. THF with 6.4 g. dicyclohexylcarbodismide, the mixt. left 16 hrs. at 2 4° and filtered, the filtrate evapd., the residue dissolved in EtOAc and 1N HCl, the soln filtered, and the filtrate washed, dried, and concd. to give after crystn. in EtOAc-petr. ether Ns-Cbo-(Ns-phthaloyl)-L-Lys-OEI, m. 116-21°, [a]21D -11.8° (c 0.5, EtOH), which was then treated with HBr in HOAc as before to give the free HBr deriv. m. 230-5°, 19.9 g. of which in 35 cc. CHCl3 was treated with 3 cc. Et3N. THF (100 cc.) was added at 20° to the mixt. which was then filtered and 3 more cc. Et3N added, followed by 5.6 g. oleic acid chloride at -30°. The mixt. was left 0.5 hr. at 0° and concd., the residue dissolved in glacial HOAc and 1N HCl, the mixt. sepd., and the soln. washed with warm H20 and NaCl soln., dried, evapd., and crystd. in EtOAc-petr. ether to give the oleyl deriv., m. 118-25°, [a]23D -9,7° (c 1, EtOH), 9.7 g. hr. after addn. of 3.5 cc. 6.72N N2H4 H20, cooled, left at 25° after addn. of 8.0 cc. 3.2N HCl in EtOA, and filtered, and the filtrate was concd., crystd. in EtOA-ceptr. ether to give at 3.3 g. Ns-oleyl-L-Lys-L-Lys-OEt. ZHCl, decompn. 220° (a) 23D -17.7° (c 1, EtOH). The starting materials have been prepod. according to standard methods described in the literature. materials nove been personal interative. The state of th

Absolute stereochemistry.

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L6 ANSWER 31 OF 36 CAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 1963:53697 CAPLUS DOCUMENT NUMBER: 58:53697 ORIGINAL REFERENCE NO.: 58:9221h,9222a-d
                                                                               Synthesis of DL-lysine from
                                                                              Saotome, Kazuo; Kodaira, Yasuto
Asahi Chem. Ind. Co., Ltd., Tokyo
Bulletin of the Chemical Society of Japan (1962), 35,
2010-12
   1, 1, 1, 5-tetrachloropentane
   CORPORATE SOURCE:
  SOURCE:
                                                                               CODEN: BCSJA8: ISSN: 0009-2673
  DOCUMENT TYPE:
                                                                               Journal
               UAGE: Unavailable
DL-Lysine (I) was prepared in a 7-step procedure from C1(CH2)4-CC13
                . II
treated with Friedel-Crafts calaysts until the evolution of HCl ceased,
and the mixture washed with H2O and distilled yielded Cl(CH2)3CH:CCl2
                ), b4
48-50°, n20D 1.4892 (g. II, catalyst, g. catalyst used, reaction
temperature, reaction time in hrs., and g. III and unreacted II obtained
given): 126, ZnCl2, 3.0, 120°, 4, 26.0, 69.0: 126, AlCl3, 2.0, 60°, 2, 85.0, 8.0: 126, SnCl4, 3.0, 130°, 3, 37.5, 76.0: 210, FeCl3, 3.0, 55°, 3, 148.0, 10.0: 420, FeCl3, 8 (used in two 3-and one 2-g. portion), 55°, 3, 318.0, --. III (174 g.) added during 1 hr. with stirring to 8 g. KCN in 500 cc. HCONNe2 at 115°, heated 2 hrs. at 115°, filtered, and evaporated, and the residue distilled gave 142 g. CCl2:cHCR2)3CN (170, b5 97-910°, n200 1.4818. IV in EtOH containing NH3 hydrogenated over Raney Co or Ni at 80° gave H2N(CH2)4CH:CCl2 (V), b5 77-80°, n200 1.4860 (g. IV, catalyst, g. catalyst, cc. EtOH, and g. NH3 used, H pressure in atmospheric, reaction time in hrs., and g. V obtained are given!: 33.0. Co. 3.0.100 12.5.00 f.
                  hrs., and g. V obtained are given): 33.0, Co, 3.0, 100, 12.5, 80, 6,
  16.5;
                 33.0, Co, 3.0, 100, -- (saturated), 85, 5, 17.4; 33.0, Co, 6.0, 200,
  16.0, 80
                3, 19.0; 33.0, Co, 6.0, 100, -- (saturated), 80, 400, 19.8; 33.0, Ni,
                100, 10.0, 80, 3, 7.8. V (16.4 g.) and 29 g. phthalic anhydride heated 4 hrs. under N at 145-50°, the mixture treated with 120 cc. 5% aqueous NaOH, and filtered yielded 27.4 g. 1,1-dichloro-6-phthalimido-1-hexene (VI), m. 56° (ECOH). VI (15 g.) added slowly to 70 cc. 96% HZSOG with cooling, the mixture treated with stirring at 5° with gaseous cl during 3 hrs., poured into iced HZO, and filtered gave 14.1 g. 2-chloro-6-phthalimidocaproic acid (VII), m. 124-5° (C6M6). VII (10 g.), 15 g. (NH4)2CO3, and 100 cc. 28% NHOW) heated 8 hrs. at 60-5°, the mixture concentrated to about 30 cc., refluxed 12 hrs. with 80 cc. 401.
the mixture concentrated to about 30 cc., territory the mixture concentrated, and the residue in 200 cc. H2O passed through Amberlite IR-4B, the eluant concentrated, cooled, and diluted with Me2CO precipitated 3.3 g. I.HCl.

1 400-38-7, 2-Isoindolinehexanoic acid, σ-amino-1,3-dioxo-(preparation of)

RN 4403-38-7 CAPLUS

CN 2H-Isoindole-2-hexanoic acid, σ-amino-1,3-dihydro-1,3-dioxo-(9CI) (CA INDEX NAME)
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ANSWER 32 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) yielded 73% II (R = HCO2, n = 1), m. 66-7° (C6H6), 2 g. starting material, and 18% III (R = HCO2, n = 1), b7 93-4°, n2D0 1.4932, d20 1.5622, MR 42.04. Ammonolysis of HCO2CH2CHCCO2H with 25% aq. NH4CH at 70° in an autoclave 10 hrs. yielded 83% isoserine, m. 239-40° (H2O). Results of similar chlorinations of VI in HCO2H are listed (R, % yield RCHC1CO2H, and % yield RCHC1CC13 given): MeOCH2, 60, --; HCO2CH2, 78. 16, PhCH2, 63, 29; C1CH2, 60, 31° HCO2(CH2)3, 82, 9; C1(CH2)3, 69, 23; C1(CH2)5, 85, 9; C1(CH2)7, 82, 6; p-C6H4(CH2CH:CC12)2, 30. Chlorination of isourea salts HCL.H2N1:NH1CS(CH2)nCH:CC12 (VII) in HCO2H gave a-chloro-e-sulfocarboxylic acids, HO3S(CH2)nCHC1CO2H (VIII) and the sulfonic acids, C13CCHC1(CH2)nSO3H (IX)

sepd. as the bis(benzylisothiourea) and Na salts, resp. VII (n = 3) (5.5 g.) in 25 ml. anhyd. HCO2H at 30° bubbled through with Cl at 50 ml./min. until evolution of HCl ceased, the reaction mixt. treated with warm H2O, and the org. layer extd. with concd. aq. Na2CO3 yielded 19% IX (n = 3) Na salt monohydrate. The H2O layer evapd. in vacuo and the acid (4.4 g.) treated with aq. Na2CO3 and PhcH2SC(:NH)NH2.HCl yielded 42.5% VIII (n = 3) bis(benzylthiourea) salt, m. 111.0-11.5° (H2O). Similarly were produced the corresponding IX Na salts and VIII bis(benzylthiourea) salts, n = 3, 5, 7, 9 in 42.5, 19; 33.5, 28.7; 13-23, 42; and 11-14.5, -- % yields, resp. Phys. data for substances obtained

conjugated chlorination of compds. contg. the dichlorovinyl group were tabulated. Many of the a-chlorocarboxylic acids were converted to the corresponding a-maino acids, including racemates of natural amino acids, as well as their analogs and homologs. 400-38-7, 2-Tabindolinehexanoic acid, a-amino-1,3-dioxo-

ΙT

(preparation of)

2H-Isoindole-2-hexanoic acid, α-amino-1, 3-dihydro-1, 3-dioxo- (9CI) (CA INDEX NAME)

L6 ANSWER 32 OF 36 CAPLWS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1962:448789 CAPLWS
ORIGINAL REFERENCE NO.: 57:9650c-i,9651a-c
TITLE: Synthesis of a-chlorocarboxylic acids by chlorinating compounds containing the CC12:CH group in AUTHOR(S):

AUTHOR(S):

Nesmeyanov, A. N.; Friedlina, R. Kh.; Kost, V. N.;
Vasil'eva, T. T.; Kopylova, B. V.

CORPORATE SOURCE:

Acad. Sci. U.S.S.R., Moscow

Tetrahedron (1962), 17, 69-77

CODEN: TETRAB; ISSN: 0040-4020

Journal

Unavailable

AB cf. CA 51, 4263d. Conjugated addition of Cl to dichlorovinyl compds.,

R(CH2)nCH:CCl2 (1) in acid medium gave the corresponding

q-chlorocarboxylic acids, R(CH2)nCHClC2R! (11) along with the

trichloro compds., R(CH2)nCHClC21 (111). The formation of III seemed to

be favored by the presence of HCl and for successful production of II the

use of Hg(GAc)2 to bind HCl or of anhydrous acids to drive out HCl was

necessary. I (R = Cl, n = 3) (90 g.) stirred in 130 g. 93 N H2SOd at

15-20\* with passage of Cl until evolution of HCl ceased, the mixture

diluted with H2O and extracted with CHCl3, the acidic products extracted

with 101

NAME and the alkaline average acidified vielded [AB 1] (2 g. C.) a. 3 with 10% NaOH, and the alkaline extract acidified yielded 78% II (R = C1, n = 3) bl.0 106-7\*, n20D 1.4825, d2O 1.3421, MR 36.37; acid chloride b5 80\*, n20D 1.4840, d2O 1.3513, MR 40.12; anilide m. 58-9\* (petr. ether-C6H6). The neutral products, bl.0 60-75\*, fractionated gave 4 g. starting material and 81 III (R = Cl, n = 3) (V), b2 86-7\*, n2OD 1.5100, d2O 1.4806, MR 49.39. chlorination in HCl, 701 HClO4, AcOH-Hg(OAc)2, anhydrous HCO2H similarly gave --, 36, 62, 691 and 81, --, 36, 231 V, resp. Chlorination in H2SO4 (d. 1.8) was recommended whenever the compds. RCH:CC12 (VI) were inert to this medium as shown by the tabulated data (R and % yield of RCHClC02H given): Me(CR2)2, 71: Me(CR2)4, 51: ClC12, 66: ClC12,3 78: ClC12H2)5, 70: CC13(CH2)2, 52: HO2C(CH2)3, 77: HO2C(CH2)4, 73: HO2C(CH2)5, 69: C6H4(CO)2N(CH2)3, 92: C6H4(CO)2N(CH2)4, 84: p-C1C6H4C2, 83. Otherwise the Chlorination of I (R = Ph, AcO, CO2H, MeO, CN) was carried out in AcOH-Hg(OAc)2 or anhydrous HCO2H. I (R = CN, n = 3) (32.8 g.) and 63.6 AcOH-Hg(OAc)2 or anhydrous HCOZH. I (R = CN, n = 3) (32.8 g.) and 63.6 g.

Hg(OAc)2 in AcOH stirred at 50° with passage of Cl till the decoloration was no longer observed and the filtered solution evaporated, the residue taken up in Et2O and the acidic products from the filtered Et2O solution extracted with concentrated aqueous Na2CO3, the extract acidified and extracted with Et2O yielded 54% II (R = CN, n = 3), bl.0 150°, n2OD 1.4770, d2O 1.2660, MR 36.06; acid chloride b2 110°, n2OD 1.4830, d2O 1.3072, MR 39.33. Hydrolysis with H2SO4 gave HO2C(CH2)3CHCLOZH, m. 102° Separation of the neutral products gave 2.5 g. starting material and 30% III (R = CN, n = 3), b2 116°, n2OD 1.5045, d2O 1.4097, MR 49.3. Similar halogenation of VI in AcOH in the presence of Hg(OAc)2 gave the tabulated products (R, Yield of RCHCICOZH, and Yyield of RCHCICOZH, and Yyield of RCHCICOZH, 35, MC(CH2)3, 54, 35; NC(CH2)3, 54, 30; Cl(CH2)3, 48, 30; OR (CH2)3, 59, 35; NC(CH2)3, 54, 30; Cl(CH2)3, 48, 32. I (R = HCOZ, n = 1) (40 g.) and 80 g. anhydrous HCOZH at 30° stirred with slow passage of Cl until no more HCl was evolved, the HCOZH removed, and the residue distilled in Vacuo

L6 ANSWER 33 OF 36 CAPLUS COPYRIGHT 2006 ACS ON STN ACCESSION NUMBER: 1962: 436608 CAPLUS OCCUMENT NUMBER: 57:36608 CAPLUS ORIGINAL REPERENCE NO.: 57:7374h-1

Peptide synthesis with vinyl esters of acylamino TITLE: acids

AUTHOR(S): CORPORATE SOURCE:

Weygand, F.; Steglich, W. Tech. Hochschule, Munich, Germany Angew. Chem. (1961), 73, 757 Journal Unavailable CASREACT 57:36608 SOURCE:

DOCUMENT TYPE:

OTHER SOURCE(S): CASREACT 57:36600

AB Vinyl esters of acyl-amino acids were prepared with vinyl acetate and

PdC12.
Vinyl esters of N-trifluoroacetyl amino acids were stable on

.llation: N-trifluoroacetylglycine vinyl ester, bl2 106-7° m. 42.5°; valine analog, bD.05 63°. These active esters were successfully used in peptide synthesis, giving good yields and min. racemization. N-Trifluoroacetyl-L-valine benzyl-amide was prepared in NCCH2CO2Et at

room temperature and crystallized after 10 min., (o]27546 -62.5° (c 2.7, EtoH). N-Trifluoroacetyl-L-valine vinyl ester and L-methyl valinate-HCl were coupled in ethyl malonate at 80° 31/2 hours. After evaporation of solvent, gas chromatography showed only 2.21 DL-compound 4403-38-7, 2-Isoindolinehexanoic acid,  $\alpha$ -amino-1,3-dioxo-

(preparation of)
4403-38-7 CAPLUS
2H-Isoindole-2-hexanoic acid, α-amino-1,3-dihydro-1,3-dioxo- (9CI)
(CA INDEX NAME)

L6 ANSWER 34 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1961:93165 CAPLUS DOCUMENT NUMBER: 55:93165 ORIGINAL REFERENCE NO.: 55:17516e-f

DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: TITLE:

Synthesis of phthaloyl amino acids under mild

AUTHOR(S): CORPORATE SOURCE:

Conditions
Nekfens, G. H. L.
Univ. Nijmegen, Neth.
Nature (London, United Kingdom) (1960), 185, 309
CODEN: NATUAS: ISSN: 0028-0836

DOCUMENT TYPE: Journal Unavailable

LANGUAGE:

Unavailable

AB N-Carbethoxyphthalimide was an excellent reagent for the preparation of phthaloyl amino acids under mild conditions. Introduction of the phthaloyl group by this method did not affect the optical activity of the maino acids. HZO (30 ml.), 1.5 g. glycine, 5.75 g. Na2CO3.10HZO

(preparation of)
4403-38-7 CAPLUS
2H-Isoindole-2-hexanoic acid, q-amino-1,3-dihydro-1,3-dioxo- (9CI)
(CA INDEX NAME)

ANSWER 35 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN (Continued) IV.HCl. This was dissolved in EtOH and neutralized with Et2NH; IV was formed on standing at 0°, yield 85%, on 296°. The reaction failed with tryptophan. The mechanism of the reaction was discussed. 4403-38-7, 2-Isoindolinehexanoic acid,  $\alpha$ -amino-1,3-dioxo-(and derivs.) 4403-38-7 CAPLUS IT

2H-Isoindole-2-hexanoic acid,  $\alpha$ -amino-1,3-dihydro-1,3-dioxo- (9CI) (CA INDEX NAME)

L6 ANSWER 35 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1951:7757 CAPLUS
DOCUMENT NUMBER: 55:7757
ST. 1461h-i,1462a-d
SIMPLE PREPARATE OF 15 SIMPLE PREPARATION OF Phthaloylamino acids via a mild phthaloylation
AUTHOR(S): Nefkins, G. H. L.: Tesser, G. I.: Nivard, R. J. F.
CORPORATE SOURCE: Univ. Nijmsgen, Neth.
SOURCE: Recueil des Travaux Chimiques des Pays-Bas et de la Belgique (1960), 79(No. 7), 688-98
CODEN: RTCPB4: ISSN: 0370-7539
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable CODEN: RTCPB4: ISSN: 0370-7539

LANGUAGE: Unavailable
OTHER SOURCE(S): CASPEACT 55:7757

AB Phthaloylamino acids were synthesized from N-carbethoxyphthalimide (I) and amino acid salts under very mild conditions in H2O. Method A. Phthalimide (145 g.) dissolved in 500 cc. HCONNEZ (DMF) and 140 ml. Et3N was treated with 100 cc. Et chlorocarbonate (II) at 5-10° with vigorous stirring. After 1 hr., the mixture reached room temperature was poured into 3 1. H2O to give 86% I, m. 80° (EtOH). Method B. K phthalimide (92.5 g.) suspended in 250 cc. DNF (vacuum distilled from was treated at 5° with 50 cc. II. After the mixture reached room temperature, I was isolated as in A. Likewise prepared were the mixture stricts units as a second mixture strict and acidified with 6N HCl. The precipitated phthaloylglycine was dissolved by heating. Slow cooling separated the product in 90.5% yield, m. 191°. Similarly were prepared the following phthaloylamino acids (the amino Similarly were prepared the following princes/, and acid, a yield, and m.p. given): -B-alanine, 91.5, 151.5°; -L-glutamic acid, 65, 160°([a]220 48.3° (c 3, dioxane), [a]220 58.8° (c 1, DMF)): -DL-phenylalanine, 90, 178°; -DL-serine, 95, 70-5° (m. 152° pure); -DL-methionine, 96, 98-9°; -L-leucine, 93, 110° (PhMe-petr. ether) ([a]25D -25.2° (c 2, 968 EtOH)); N.N--diphthaloyl-L-cystine, 92, 120° ([a]22.5b -289.7° (c 1, DMF)) (from this preparation a 2nd product, m. 171°, was obtained; this contained 2 moles Na to 3 moles diphthaloyl-L-cystine). Ne-Phthaloyl-L-lysine (III) was prepared by adding a cusOd-solution (0.01 mole) to 3.65 g. L-lysine-HCl in 35 cc. H2O (containing 0.04 mole NaOH). To the blue mixture, 2 L-lysine-HCL in 30 cc. nzo (conceaning cross manner).

g. Na2CO3 and 5 g. I was added to give the Cu-salt of Ne-phthaloylL-lysine, purified by washing with H2O, CH2C12, EtOH, and Et2O. The dry
powder was suspended in H2O, treated with concentrated HCl, and H2S at
50°, the mixture filtered, and the HCl salt precipitated with HCl-gas, in
855 yield, m. 212°. III was obtained by addition of NaHCO3 to a H2O
solution of the HCl salt, m. 232°, [α]22D 22.66° (c2,
DMF). α-Phthaloyl-DL-histidine(IV) was prepared by addition of 5 g. I

L6 ANSWER 36 OF 36 CAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1953:51305 CAPLUS DOCUMENT NUMBER:

47:51305 47:8649h-i,8650a-b ORIGINAL REFERENCE NO.:

Amino acids and peptides. IX. y-L-Glutamyl-L-alanine, -L-valine, and -L-leucine Rowlands, D. A.: Young, G. T.

AUTHOR (S):

CORPORATE SOURCE: Oxford Univ., UK

Journal of the Chemical Society, Abstracts (1952) 3937-40 SOURCE:

CODEN: JCSAAZ: ISSN: 0590-9791

3.8 g. DL-histidine-HCl in H2O (containing 0.04 mole Na2CO3). After 30  $_{\rm min}$  , stirring, the solution was filtered and acidified. Evaporation to dryness gave

DOCUMENT TYPE: Journal

December 1172. Outside LANGUAGE: Unavailable AB cf. C.A. 47, 1053b. N-Carbobenzyloxy-y-L-glutamic acid hydrazide (1) (3.6 g.) in 4 mL. concentrated HCl and 50 mL. CHCl3, treated at 0\* with 1.2 g. NaNO2 in 10 mL. H2O and the CHCl3 solution of the azide added to

with 1.2 g. NaNO2 in 10 mL. N2O and the CHC13 solution of the azide d to 3 g. L-H2NCHMeCO2Et [preparation of the HCl salt, m. 76°, [a]D19 3.1° [H2O, c 2.5) in 88% yield given] in 5 mL. CHCl3 at 0°, kept several hrs. at 0° and overnight at room temperature, give 47% of the Et ester, m. 112-13°, of N-(N-carbobenzyloxyy-L-glutamyl)-L-alanine (111), m. 150-4° [95%); 0.5 g. II in 20 mL. aqueous MeOH, hydrogenated over Pd black, gives 94% N-(y-L-glutamyl)-L-alanine (111), m. 185-7°, [a]D18 -22.1° [H2O, c 5). The azide prepared from 5 g. 1 and L-valine Me ester [the HCl salt m. 161-2°, [a]D20 15.6° (c 3.8, H2O)], followed by hydrolysis, gave 86% N-(N-carbobenzyloxy-y-L-glutamyl)-L-valine, m. 153-6°; hydrogenation gave 90% N-(y-L-glutamyl)-L-valine (IV), m. 207°, [a]D19 0 ± 0.5° [H2O, c 2 .4).
Similarly prepared, N-(N-carbobenzyloxy-y-L-glutamyl)-L-leucine, m. 132-4° and 85-90° [91%); N-(y-L-glutamyl)-L-leucine, m. 132-4° and 85-90° [91%); N-(y-L-glutamyl)-L-leucine (V), m. 185°, [a]D19 -13.5° (H2O, c 2.3).
Autohydrolysis of III gives H2NCHMeCO2H (VI) but little glutamic acid; rate of formation of VI is closely paralleled by the formation of

rate of formation of VI is closely paralleled by the formation of 5-oxo-2-pyrrolidinecarboxylic acid. IV and V are much more resistant to hydrolysis. The hydrolysis of III and the corresponding glycine was studied in acetate and phosphate buffers; the amino acids seem to be formed a little more rapidly in the latter.
403-38-7, 2-Isoindolinehexanoic acid, a-amino-1,3-dioxo-ΙT

(preparation of)
4403-38-7 CAPLUS
2H-Isoindole-2-hexanoic acid, α-amino-1,3-dihydro-1,3-dioxo- (9CI)
(CA INDEX NAME)

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